

ITEM 686.85XXXM MAST ARM TRAFFIC SIGNAL

DESCRIPTION

The work shall consist of furnishing and installing new steel mast arms for traffic signals, in accordance with the contract documents or directions of the ENGINEER.

MATERIALS

The steel arm masts herein specified are to be used for suspending traffic signal heads. The mast arm shall be galvanized steel of round tapered tubular construction, constructed in accordance with the latest ASTM specifications. The arm shall be equipped with a steel flange plate electrically welded to the butt end of the mast arm. The steel flange plate shall telescope the butt end of the mast arm shaft and shall be continuously welded on the inside bottom and outside top. The entire mast arm assembly shall be hot dip galvanized in accordance with ASTM A 123. The mast arm shall be furnished with four (4) high strength steel bolts in accordance with ASTM A 325 for attaching the arm to the pole. The mast arm shall be furnished with clamp and clevis assemblies for attaching traffic signal heads as shown on the plans. The mast arm shall be round continuously tapered construction 11 mm per meter of length. The arm shall be of one piece, having no more than one longitudinal seam, which shall be continuously welded and ground or rolled flush. Mast arm extension shall be as shown on the plans. Mast arm caps shall be as shown on the plans.

The mast arms shall be constructed to the sizes and dimensions shown on the plans.

All welding shall be performed in accordance with the New York State Steel Construction Manual.

All materials shall be in conformance with Section 724-03 of the New York State Standard Specifications.

CONSTRUCTION DETAILS

Mast arms shall be erected as specified in the contract documents and as directed by the ENGINEER.

Mast arm and signal locations shown on the contract plans shall be field checked for any condition that may affect their placement; where changes are necessary the exact location will be determined by the ENGINEER. It shall be the CONTRACTOR=s responsibility to verify mast arm length before ordering mast arms.

Mast arm erections shall include installation of mast arms and attachment of fittings as specified in the contract documents.

Field galvanizing shall be done in accordance with Section 719-01 of the New York State Standard Specifications.

METHOD OF MEASUREMENT

The mast arms will be measured for payment as the number of each unit furnished and installed in accordance with the contract documents or as directed by the ENGINEER.

ITEM 686.85XXXM MAST ARM TRAFFIC SIGNAL**BASIS OF PAYMENT**

The unit price bid for each mast arm shall include all items specified in the material and construction details including assembly and erection, and field galvanizing as required.

Payment will be made under:

<u>Item No.</u>	<u>Item</u>	<u>Pay Unit</u>
686.85030M	Mast Arm Traffic Signal, 3.0 m length	EA
686.85037M	Mast Arm Traffic Signal, 3.7 m length	EA
686.85043M	Mast Arm Traffic Signal, 4.3 m length	EA
686.85049M	Mast Arm Traffic Signal, 4.9 m length	EA
686.85055M	Mast Arm Traffic Signal, 5.5 m length	EA
686.85061M	Mast Arm Traffic Signal, 6.1 m length	EA
686.85067M	Mast Arm Traffic Signal, 6.7 m length	EA
686.85073M	Mast Arm Traffic Signal, 7.3 m length	EA
686.85079M	Mast Arm Traffic Signal, 7.9 m length	EA
686.85085M	Mast Arm Traffic Signal, 8.5 m length	EA
686.85091M	Mast Arm Traffic Signal, 9.1 m length	EA
686.85098M	Mast Arm Traffic Signal, 9.8 m length	EA
686.85104M	Mast Arm Traffic Signal, 10.4 m length	EA
686.85110M	Mast Arm Traffic Signal, 11.0 m length	EA
686.85116M	Mast Arm Traffic Signal, 11.6 m length	EA
686.85122M	Mast Arm Traffic Signal, 12.2 m length	EA
686.85128M	Mast Arm Traffic Signal, 12.8 m length	EA

BASIS OF ACCEPTANCE

Acceptance of arms covered by this specification will be based on manufacturer's certification of compliance with the specification requirements signed by an officer of the company. Detailed drawings of the arms shall be submitted with the certification.